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### AVERAGE AND PROBABILITY.

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82. Proposed by B. F. FINKEL, A.M., M.Sc., Professor of Mathematics and Physics, Drury College, Springfield, Mo.

Find the average area of the quadrilateral formed by joining the extremities of two chords perpendicular to each other and passing through a point at a distance  $a$  from the center of a circle radius  $R$ .

83. Proposed by F. P. MATZ, M. Sc., Ph. D., Professor of Mathematics and Astronomy, Irving College, Mechanicsburg, Pa.

Find the average area of all ellipses whose semi-axis major is  $a$ .

84. Proposed by L. C. WALKER, Associate Professor of Mathematics, Leland Stanford Jr. University, Palo Alto, Cal.

From a point in the circumference of a circle two chords are drawn; find (1) the average radius, and (2) the average area of the circle which touches the two chords and the given circle.

\* \* Solutions of these problems should be sent to B. F. Finkel not later than Dec. 10.

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## EDITORIALS.

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Mr. L. C. Walker has been elected Associate Professor of Mathematics in Leland Stanford Jr. University, Palo Alto, Cal.

Mr. Edwin Haviland, B. Sc., Swathmore College, 1885; A. M., Cornell University, 1899, has been appointed Instructor in Mathematics in Swathmore College.

John A. Miller, Professor of Astronomy and Mechanics in the Indiana University, received the degree of Doctor of Philosophy at the Summer Convocation of the University of Chicago.

John B. Faight, Associate Professor of Mathematics in Indiana University, who took a course of mathematics at the University of Pennsylvania last year, received the degree of Doctor of Philosophy from that institution at its last commencement.